

### ABSTRACT OF THE DISCLOSURE

A rotary engine assembly having a three dimensional and substantially cylindrical shaped outer casing. A plurality of pistons are mounted in circumferentially traversable fashion within the casing, each including a male  
5 feature extending from one end and a recess defined within an opposing piston end and within which the male feature seats at selected stages during a rotary combustion cycle associated with the pistons. A valve is operable with each of the pistons and in order to communicate, to the associated piston, at least one air intake port and exhaust port extending through the casings and  
10 communicable with the pistons during discrete stages of the combustion cycle. A plurality of ratchet plates are operably engaged to the pistons and traversable therewith, the ratchet plates engaging and actuating in rotary fashion a central crankshaft. An oil feed line is associated with a central location of the engine assembly, the oil being disbursed through centrifugal force throughout the  
15 pistons and associated contact surfaces and recollecting in gravity fashion within a lowermost disposed oil pan.